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(54) INK JET HEAD AND ITS MANUFACTURE

(57) Abstract:

PURPOSE: To provide a highly sealed manufacturing method which manufactures an ink jet head easily at a low cost by a method wherein damping of vibration of ink in an ink passage is quickened, response frequency of the head is raised, and printing is carried out at a high speed.

CONSTITUTION: A passage substrate 1 is made of materials such as polysulfone or the like. A plurality of nozzles 1a pass therethrough in a thickness direction. An ink passage consisting of a communication passage 1e, a pressure chamber 1d, and an ink supply passage 1f is formed by being partitioned so as to communicate with the nozzle 1a on a rear face by crossing at right angles. A passage substrate cap 2 sealing the ink passage is laminated on a back of the passage substrate 1, and they are bonded with a sheet like adhesive 3. The sheet like adhesive 3 is obtained by impregnating a rubber base material with epoxy resin or the like. Three wall faces of the ink passage sealed by this bonding are composed of polysulfone, and another wall (d) is composed of rubber base material being the material of the sheet like adhesive 3. Therefore, the

wall face (d) becomes the wall face of a different elastic modulus.

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